

**AMENDMENTS TO THE CLAIMS**

1-19. (Cancelled)

20. (Previously Presented) A material with a surface nanometer functional structure comprising:

- a substrate;
- a nanostructure on the substrate; and
- at least one layer of a surface nanometer functional structure being formed on a surface of the nanostructure, the surface nanometer functional structure includes at least one of a plurality of micro nanowires and a plurality of nanodots.

21. (Previously Presented) The material of claim 20, wherein the substrate has an ultrahigh surface area to volume ratio.

22. (Cancelled)

23. (Cancelled)

24. (Original) The material of claim 20, wherein the surface nanometer functional structure is a homogeneous functional layer.

25. (Previously Presented) The material of claim 24, wherein the one layer of the surface nanometer functional structure is a molecule self-assembling reaction layer.

26. (Previously Presented) The material of claim 20, wherein the material of the surface nanometer functional structure includes at least one of organic molecules, metal oxides, non-metal oxides, and metals.

27. (Previously Presented) A one-dimensional nanometer material with a surface nanometer functional structure, which comprises:

a nanowire; and  
at least one layer of a surface nanometer functional structure formed on a surface of the nanowire, the surface nanometer functional structure includes at least one of a plurality of micro nanowires and a plurality of nanodots.

28. (Cancelled)

29. (Cancelled)

30. (Original) The material of claim 27, wherein the surface nanometer functional structure is a homogeneous functional layer.

31. (Previously Presented) The material of claim 27, wherein the material of the surface nanometer functional structure includes at least one of organic molecules, metal oxides, non-metal oxides, and metals.

32-41. (Cancelled)